

Laser Show System

User Manual



F4000237

Operating/Safety Instructions

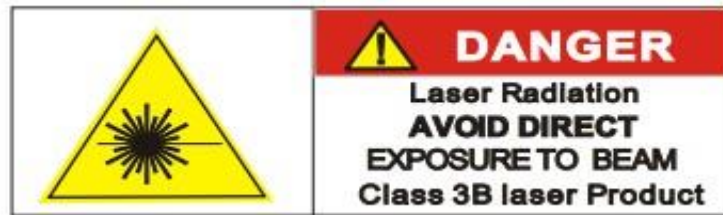
Caution: Please read and understand these instructions before installing or operating this unit. These instructions contain important safety information regarding the use and maintenance of this unit.



Caution! Do not remove the cover under any conditions. There are no user service able parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. Refer all servicing to qualified personnel.

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

- Do not expose this apparatus to dripping or splashing liquids. Do not place objects filled with water on the apparatus. Do not expose it to rain or moisture, and do not use it near water.
- Clean only with a dry cloth.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6 (15cm) between this device and a wall.
 - This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- Unplug this unit during lightning storms or when unused for long periods of time.
- Always mount this unit in safe and stable matter. Always use proper lighting safety cables when hanging lights and effects overhead.
- Protect the power cord from being walked on or pinched.
- Do not install near any heat sources such as radiators, heat registers, stoves, or any other apparatus that produce heat.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



CAUTION IMPORTANT! When installing this projector, make sure that it is mounted in a manner that prevents the audience from looking directly into the beam, and the beam from striking the audience.

This unit contains high power laser devices internally (class 3B). The laser is then split up into multiple beams (class 3R.) It is incorrect to assume that because the laser is split into hundreds of beams, that an individual laser beam is safe for eye exposure. Class 3R beams can cause just as much damage as Class 3B beams.

Do not open the laser housing, due to the potential exposure to unsafe levels of laser radiation.

The laser power levels, accessible if the unit is opened, can cause instant blindness, skin burns and fires.

The light source emitted from this product can potentially cause eye injury if not set up and used properly.

After setting up, and before public use, test the laser to ensure proper function. Do not use if any defect is detected. Do not use if laser emits only one or two laser beams rather than dozens/hundreds, as this could indicate damage to the diffraction grating optic, and could allow emission of higher laser levels above class 3R.

Do not point lasers at people or animals.

Avoid direct eye contact with laser light. Never look into the laser aperture or laser beams.

Do not point lasers in areas in which people can potentially get exposed, such as uncontrolled balconies, etc.

Do not point lasers at highly reflective surfaces, such as windows, mirrors and shiny metal. Laser reflections can be hazardous.

It is a US Federal offense to shine any laser at an aircraft.

Never point un-terminated laser beams into the sky.

Do not expose the output optic (aperture) to cleaning chemicals.

Do not use the laser if the housing is damaged, the housing open, or if the optics appear damaged in any way.

Never leave this device running unattended.

Only well trained operators, familiar with the information in this manual, may operate a class 3R laser show.

The legal requirements for using laser entertainment products vary from country to country. The user is responsible for the legal requirements at the location/country of use.

The Mode: Set Address 10 OFF, Set Address 9 OFF. Address 1 to 8 are 8 effect, can select one or more to play.

Sound Mode: Set Address 10 OFF, Set Address 9 OFF. Address 1 to 8 are 8 effect, can select one or more to play

DMX512 Mode: Set Address 10 ON, Address 1 to 9 is between 1-511.

Slave Mode: Set address 1 and 10 ON, Address 2-9 OFF. (same as DMX512 address 1.)

System has 23 DMX512 Channel, have 22 DMX512 Channels without step motor.

System has 2 Gobos, each gobo with 11 DMX512 channels. The detailed channels as following:

Channel Instruction

Channels	Address	Description
	0	Off
	1-50	Auto Mode, pattern will be smaller when address less than 5
Ch2,Ch12	51-100	Auto Mode, pattern will be smaller when address less than 55
	101-150	Sound Mode, pattern will be smaller when address less than 105
	151-200	Sound Mode, pattern will be smaller when address less than 155
	200-255	Play Auto mode directly
Ch2,Ch13		Pattern Selection, each 2 Address is one Pattern, Total 127 pattern
Ch2,Ch14	0-63	Adjust the size of static state
	64-255	Effect of size of trends, each 32 address is one range, each range with different effect, In the same range, bigger address with fast action.
Ch2,Ch15	0-63	Adjust the rotation of static state
	64-255	Effect of rotation of trends, each 32 address is one range, each range with different rotation effect, In the same range,

		bigger address with fast action.
Ch5,Ch16	0-63	Adjustment of horizontal scroll
	64-255	Effect of horizontal scroll of trends, each 32 address is one range, each range with different horizontal scroll effect, In the same range, bigger address with fast action.
Ch6,Ch17	0-63	Adjustment of vertical movement of static state
	64-255	Effect of vertical movement of trends, each 32 address is one range, each range with different vertical movement effect, In the same range, bigger address with fast action.
Ch7,Ch18	0-63	Adjustment of horizontal zoom of static state
	64-255	Effect of horizontal zoom of trends, each 32 address is one range, each range with different horizontal zoom effect, In the same range, bigger address with fast action.
Ch8,Ch19	0-63	Adjustment of vertical zoom of static state
	64-255	Effect of vertical zoom of trends, each 32 address is one range, each range with different vertical zoom effect, In the same range, bigger address with fast action.
Ch9,Ch20	0-63	Adjustment of Gradually drawing of static state
	64-255	Effect of Gradually drawing of trends, bigger address with fast action.
Ch10,Ch21	0-255	Definition of node, bigger address with more clear node
	0-127	Selection of color of static each 32 address in one color scheme
Ch11,Ch22	128-191	Color changing of same color of all pattern, bigger address with fast color change
	192-255	Effect of running water based on the original color of pattern, bigger address with faster water running
CH23		Different version with different step motor
Rotate grating version	0	Step motor stop
	1-127	Step motor corotation, bigger address with faster speed
	128-255	Step motor inversion, bigger address with faster speed
Shut version	0-127	Shut ON
	128-255	Shut OFF
Rotate swing version	0-63	Angle of grating
	64-127	No function
	128-255	Grating swing, each 32 address is one range, each range with different swing effect, In the same range, bigger address with fast swing speed
No function version		No function

Color setting:

Standard color is RG, but you can set the color as green, RG or RGB as following:

Turn of the power, setting address as 3,5,7,9,10 then short off the outlet (short off one outlet is single color, short off two outlets id RG, short off 3outlets RGB). Then turn on the power, light flash means setting success, then turn off the power and restart the machine.

Installation

1. Please check the voltage whether is the same with the one showed on the equipment or not.
2. It must ask for the technical person and set the light safety when installation. And let the light beam at the suitable angle.
3. When install this equipment please make sure there's no flammable surfaces (decorated things, etc) within at least 2.5M and maintain minimum distance of 0.5M from the equipment to the walls.
4. Please make sure that there's no other equipment or decorating materials obstructed the exhaust fan and the vent-pipe.
5. Products should be install immobility.
6. In case of safety, it's very important that to connect the earth with line.

Attention

1. Please do not open the bottom cover yourself without permission. Operate it accord the user manual. Call the technician when the machine breaks down.
2. Please do not see the laser beam directly to avoid any damage.
3. Before connect or disconnect the power, please adjust the luminance of the laser diode to the least to avoid any damage to the laser diode.
4. This unit should be keep dry, do not use in the rain and dusty environment. It can be used in the outdoor with the water-proof cover protector.
5. Set the light immobility and try to avoid strong shake or hit.
6. Prevent dust into the equipment to avoid problems.
7. Please keep that there's no other equipment or decorating materials obstructed the exhaust fan and the vent-pipe when the equipment was working.
8. Before connect power, check the plug is immobility or not, power line should be connect well.
9. Please do not open or close the equipment frequently that's to avoid any affect to the life span of the laser diode, and try the best to avoid the long time working.
10. Due to the characteristic of the laser diode, after four hours working, it should be close at least 25 minutes until the laser diode cooling then work again.
11. Don't touch the light or draw the power line when your hand was wet. And do not pull the electronic power line.
12. Maintain the distance at least 3M above from the equipment to the object.
13. This equipment does not have any parts can repair for the users, please do not open the equipment.
14. When the laser diode became dim or damaged please contact the dealer timely.
15. When you want to retransfer the products, you'd better use the original package to shockproof.